

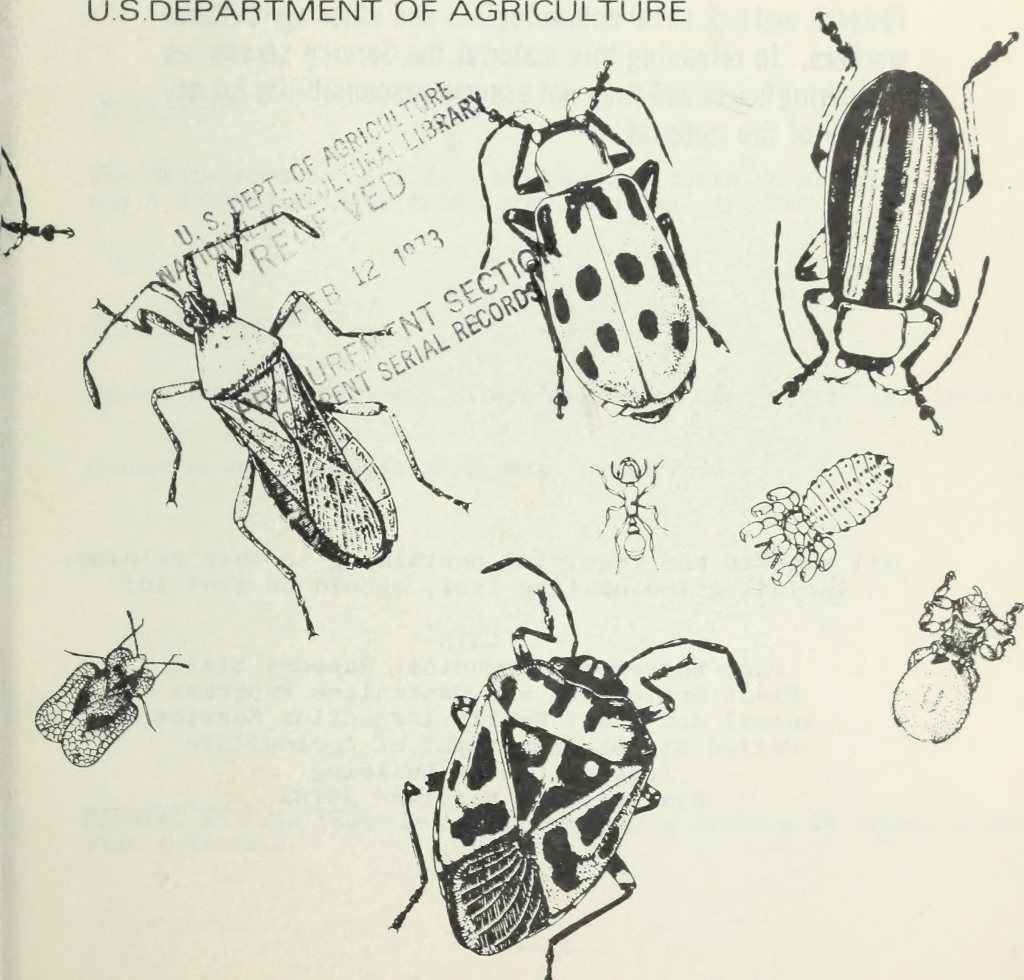
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Cooperative Economic Insect Report

Issued by

PLANT PROTECTION AND QUARANTINE PROGRAMS
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
U.S. DEPARTMENT OF AGRICULTURE



ANIMAL AND PLANT HEALTH INSPECTION SERVICE
PLANT PROTECTION AND QUARANTINE PROGRAMS
PEST SURVEY AND TECHNICAL SUPPORT STAFF

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Service serves as a clearinghouse and does not assume responsibility for accuracy of the material.

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COOPERATIVE ECONOMIC INSECT REPORT

HIGHLIGHTS

Current Conditions

Barley yellow dwarf virus, transmitted by CORN LEAF APHID and ENGLISH GRAIN APHID, may be major small grain problem in Alabama next few months. (p. 27).

ALFALFA WEEVIL active in Texas, Oklahoma, and Missouri. (p. 27).

Detection

New State records include a SCARAB from North Carolina (p. 28) and a PTEROMALID WASP from South Carolina. (p. 28).

Special Reports

Survey Methods. Selected References 1971. Part XXXVI. (pp. 29-47).

Golden Nematode Quarantines. Map. Centerfold.

Reports in this issue are for week ending January 26 unless otherwise indicated.

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NATIONAL WEATHER SERVICE'S 30-DAY OUTLOOK

FEBRUARY 1973

The National Weather Service's 30-day outlook for February is for temperatures to average below seasonal normals in the gulf and south Atlantic coast regions. Above normal temperatures are indicated for the West Coast States as well as the northern inter-mountain region, the northern and central Plains and the upper Mississippi Valley. In unspecified areas near normal temperatures are expected. Precipitation is expected to exceed normal over the Atlantic Coast States, the gulf coast region, the southern Plains and the north Pacific coast. Subnormal totals are indicated for most of the Plateau region as well as the northern Plains and the northern Mississippi Valley. Elsewhere near normal precipitation is in prospect.

Weather forecast given here is based on the official 30-day "Resume and Outlook" published twice a month by the National Weather Service. You can subscribe through the Superintendent of Documents, Washington, D.C. 20250. Price \$5.00 a year.

SPECIAL INSECTS OF REGIONAL SIGNIFICANCE

BEEF LEAFHOPPER (Circulifer tenellus) - CALIFORNIA - Treatment for overwintering adults started in canyons near Coalinga and in Warthan Canyon, Fresno County. Counts on southern exposures ranged 6-30 (average 14) per 10 sweeps throughout most of the Coalinga canyons. (Cal. Coop. Rpt.).

GREENBUG (Schizaphis graminum) - TEXAS - Light throughout Rolling and High Plains areas. Populations in Wilbarger and Knox Counties ranged 15-26 per linear foot. Surveys in 26 Panhandle counties showed maximum counts per row foot in wheat as follows: Parmer 150, Castro 50, Carson 15. (Daniels). MISSOURI - Very light on wheat in southwest area; ranged from less than 1 to 5 per row foot. (Munson).

SMALL GRAINS

CORN LEAF APHID (Rhopalosiphum maidis) - ALABAMA - This aphid and Macrosiphum avenae (English grain aphid), vectors of barley yellow dwarf virus, found on all oat and barley samples taken in Dallas, Montgomery, and Autauga Counties. Virus widespread in 1971 and 1972. Many susceptible varieties planted in fall of 1972 and virus expected to become major small grain problem next 2-4 months. (Farrar).

WINTER GRAIN MITE (Penthaleus major) - TEXAS - Light on small grains in Rolling Plains. Ranged 9-21 per row foot in Wilbarger, Foard, and Haskell Counties. (Green).

TURF, PASTURES, RANGELAND

RANGE CATERPILLAR (Hemileuca oliviae) - NEW MEXICO - Egg clusters light to heavy on native grass in Chaves and Lincoln Counties. (N.M. Coop. Rpt.).

FORAGE LEGUMES

ALFALFA WEEVIL (Hypera postica) - TEXAS - Generally light in Brazos and Burleson Counties. Egg and larval counts averaged 112 and 26 per square foot, respectively. (Latham). OKLAHOMA - Average egg counts per square foot by county: Payne 21, Stephens 229, Grady 68, McClain 6, Pottawatomie 24, Garvin 29. No hatching noted. (Okla. Coop. Sur.). MISSOURI - Adults active in the west-central and southwest areas. Counts averaged 6 and 14 per sweep, respectively, in these areas. (Munson).

GENERAL VEGETABLES

GREEN PEACH APHID (Myzus persicae) - ARIZONA - Treatments required on lettuce fields at Salt River Valley, Maricopa County, and Yuma, Yuma County. (Ariz. Coop. Sur.).

MAN AND ANIMALS

SCREWORM (Cochliomyia hominivorax) - Total of 3 confirmed cases reported in continental U.S. during period January 14-20; all from Texas. Total shows 50 percent decrease in confirmed cases below previous week. Total of 112 cases confirmed in Mexico this period. Number of sterile flies released in U.S. this period total 46,824,000; all in Texas. Total of 187,420,000 sterile flies released in Mexico. (Anim. Health).

SHORTNOSED CATTLE LOUSE (Haematopinus eurytERNUS) - OKLAHOMA - Reported heavy on several herds of dairy cattle in Payne County; light in Johnston County. (Okla. Coop. Sur.).

BENEFICIAL INSECTS

A PTEROMALID WASP (CheirOPACHUS colon) - SOUTH CAROLINA - This parasite reared from infestation of Scolytus rugulosus (shothole borer) on a tree in Edgefield County. Collected December 10, 1972, by D.K. Pollet. Determined by R.H. Foote. This is a new State record. (Thomas).

DETECTION

New State Records - A SCARAB BEETLE (Ataenius erratus) - NORTH CAROLINA - Collected by Frank Bowen from light trap at county airport, New Hanover County, on July 1, 1970. Determined by O.L. Cartwright. (Green). A PTEROMALID WASP (CheirOPACHUS colon) - SOUTH CAROLINA - Edgefield County. (p. 28).

CORRECTIONS

CEIR 23(1-4):6 - WHITEFRINGED BEETLES (Graphognathus spp.) - LOUISIANA - G. peregrinus should read G. peregrinus.

HAWAII INSECT REPORT

General Vegetables - TARO LEAFHOPPER (TarOPHAGUS proserpina) light in 2 acres of taro at Kahaluu, Oahu; 3-9 nymphs and/or adults per leaf. CyrtORHINUS fulvus (a mirid bug), predacious on T. proserpina eggs, trace. WATERLILY APHID (Rhopalosiphum myrphaeae) adults and nymphs moderate on new leaves in this planting. CORN EARWORM (Heliothis zea) and MELON FLY (Dacus cucurbitae) damaged or infested about 8 percent of fruits in 0.25 acre of sweet pepper at Anahola, Kauai. LEAFMINER FLIES (Liriomyza spp.) light in 0.3 acre of snap beans at Hanapepe, Kauai; larval mines heavy in some older leaves. Mines light to moderate in 3,000 square feet of young tomato plants at Wailua. GREEN PEACH APHID (Myzus persicae) nymphs and adults light in 4 acres of eggplant at Hanalei; moderate in some leaves. GREENHOUSE WHITEFLY (Trialeurodes vaporariorum) trace in snap beans and eggplant. (Kawamura). Larvae of DIAMONDBACK MOTH (Plutella xylostella) light to moderate in small daikon planting at Waimanalo, Oahu. (Otsuka).

Fruits and Nuts - Larvae of a NOCTUID MOTH (Phlegetonia delatrix) heavily damaged foliage of roadside Java plum trees at Kipahulu, Maui. (Ah Sam). All stages of THREELINED POTATO BEETLE (Lema trilineata) heavy in small yard planting of poha (Physalis peruviana) at Hanalei, Kauai; about 100 percent of leaves damaged. (Kawamura).

General Pests - CARMINE SPIDER MITE (Tetranychus cinnabarinus) heavy in 2 acres of eggplant at Anini, Kauai, despite intensive control applications. Generally light in 150 acres of passionfruit at Kahului, Maui; moderate in spots. BROAD MITE (Polyphagotarsonemus latus) moderate on terminals of this passionfruit. Controls maintained to keep these pests at low levels. (Miyahira).

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Part XXXVI

Additional copies of Parts I through XXXVI of this bibliography are available from Pest Survey and Technical Support Staff.

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U. S. DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
PLANT PROTECTION AND QUARANTINE PROGRAMS
COOPERATING WITH AFFECTED STATES



COUNTIES ENTIRELY COLORED ARE COMPLETELY REGULATED
COUNTIES PARTIALLY COLORED ARE PARTIALLY REGULATED

ERADICATED — REGULATIONS REMOVED.

*WHEN IT IS DETERMINED BY THE INSPECTOR
THAT A HAZARD OF SPREAD EXISTS.

SEE REVERSE SIDE FOR LIST OF REGULATED ARTICLES.

THE FOLLOWING REGULATED ARTICLES REQUIRE A CERTIFICATE OR PERMIT YEAR-ROUND AS INDICATED:

1. Soil, compost, humus, muck, peat, and decomposed manure, separately or with other things.
Soil samples shipped to approved laboratories do not require attachment of a certificate or permit.*
2. Plants with roots, **except** soil-free aquatic plants.
3. Grass sod.
4. Plant crowns and roots for propagation.
5. True bulbs, corms, rhizomes, and tubers, of ornamental plants.
6. Irish potatoes and other root crops.
Irish potatoes (other than for seed) are **exempt**** if graded at an approved grader or washed free of soil, and packaged in approved containers, unless otherwise notified by an inspector. Potatoes from noninfested fields may be shipped to Puerto Rico in new burlap bags.
Root crops (other than Irish potatoes and sugar beets) are **exempt**** if moved in approved containers, unless otherwise notified by an inspector.
7. Small grains and soybeans.
Small grains are **exempt**** if harvested in bulk or directly into approved containers, and if the small grains and containers thereof have not come into contact with the soil; or, if they have been cleaned to meet State seed sales requirements.
Soybeans (other than for seed) are **exempt**** if harvested in bulk or directly into approved containers, and if the soybeans and containers thereof have not come into contact with the soil.
8. Hay, straw, fodder, and plant litter of any kind.
Hay, straw, fodder, and plant litter are **exempt**** if moved in approved containers, unless otherwise notified by an inspector.
9. Ear corn **except**, shucked ear corn.
Unshucked ear corn is **exempt**** if harvested in bulk or directly into approved containers, and if the corn and containers thereof have not come into contact with the soil.
10. Used crates, boxes, and burlap bags, and other used farm products containers.
11. Used farm tools.
Used farm tools, are **exempt**** if cleaned free of soil.
12. Used mechanized cultivating and used harvesting equipment.
13. Used mechanized soil-moving equipment.
14. Any other products, articles, or means of conveyance, of any character whatsoever, not covered by the above when it is determined by an inspector that they present a hazard of spread of golden nematode and the person in possession thereof has been so notified.

*Information as to approved laboratories may be obtained from an inspector.

**Exempt if not exposed to infestation after cleaning or other prescribed handling.

THE FOLLOWING REGULATED ARTICLES REQUIRE A CERTIFICATE OR PERMIT YEAR-ROUND AS INDICATED:

1. Soil, compost, humus, muck, peat, and decomposed manure, separately or with other things.
Soil samples shipped to approved laboratories do not require attachment of a certificate or permit.*
2. Plants with roots, **except** soil-free aquatic plants.
3. Grass sod.
4. Plant crowns and roots for propagation.
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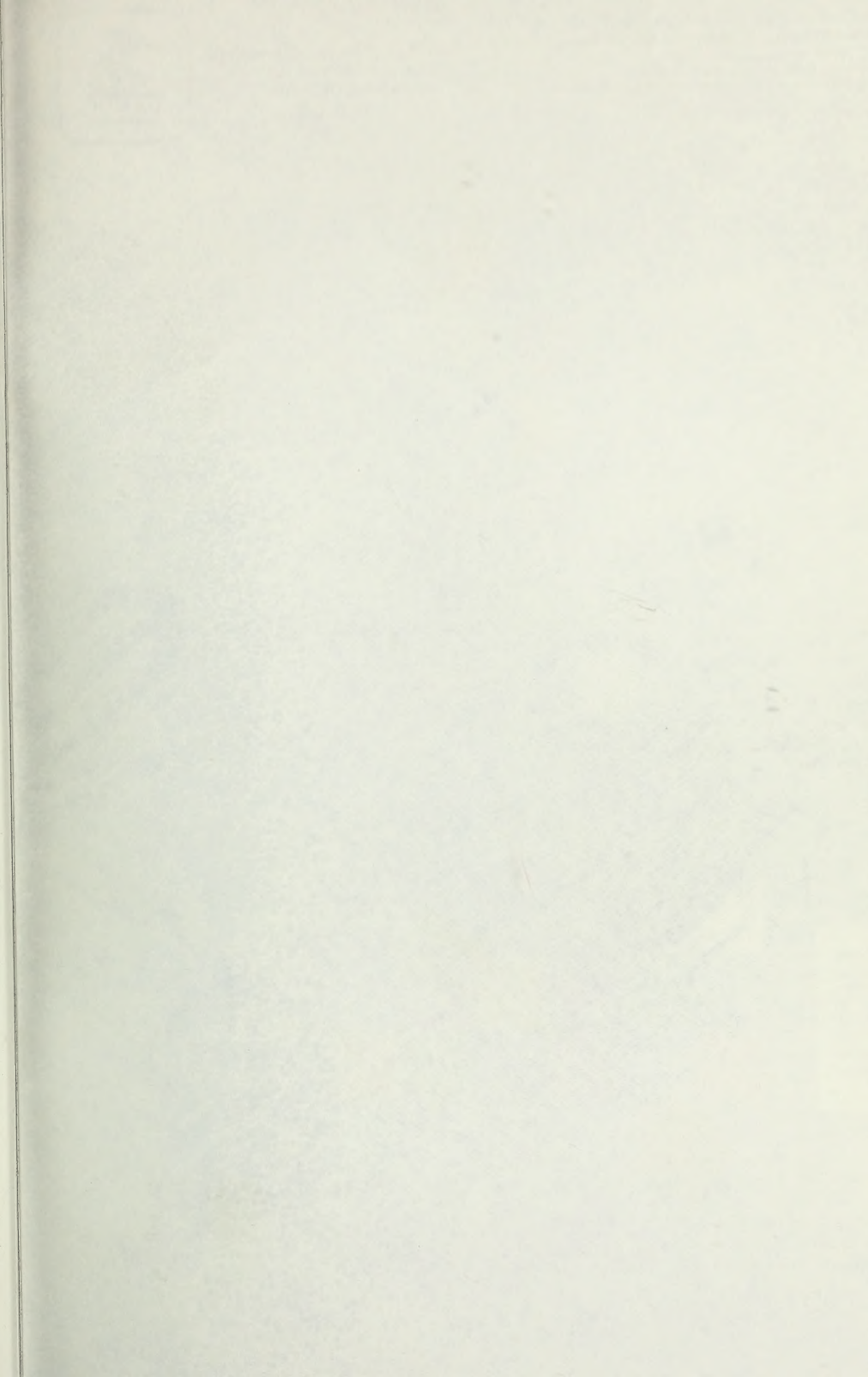
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PRECIPITATION: A storm centered over the middle Mississippi River Valley moved northeastward across Upper Michigan early in the week. Snow fell from this storm over the middle and lower Missouri River Valley and rain fell in the warm sector from the Ohio River Valley to New York. Light rain fell along the Texas coast. Numerous showers fell in the Florida Peninsula and several inches of snow fell in parts of New Mexico. A Pacific front moved into the Far West Wednesday. It spread clouds and rain along the coast and snow in nearby hills and mountains. Snow also fell at midweek from the Ohio River across the northern Appalachians to New England. Shortly after midweek a Low developed in the western portion of the Gulf of Mexico. It caused snow from the Pecos River to the hill country Thursday forenoon. In some areas snow was mixed with freezing rain. Snow accumulated to 4 inches at San Angelo and vicinity. Cold rain fell from southern Oklahoma and east Texas to the lower Mississippi River Valley. As the weekend approached, warm moist gulf air streamed northward. Moderate to heavy rains fell from eastern Texas across the southern Great Plains. Light snow continued in parts of central Texas. The snow, combined in some areas with freezing rain, slicked highways and made travel hazardous. The precipitation area spread northward and eastward and by Sunday most of the eastern half of the Nation received rain or snow. Snow fell in the Northeast, rain fell south of the snow belt. Freezing rain slicked roads in some spots south of the snow belt. The Pacific coast received precipitation at midweek, rain along the coast and snow at higher elevations. Blizzards, cold temperatures, howling winds, and blowing snow with near zero visibility occurred in the Great Plains Saturday. In some spots, snow drifts became several feet deep. Some roads became impassable. A number of tornadoes struck central Florida Sunday.

TEMPERATURE: Winter temperatures prevailed over much of the Nation early in the week. The mercury at Fraser, Colorado, tumbled to 28 degrees below zero Tuesday morning, January 23. Mild temperatures continued in the extreme Southeast early in the week with maximums reaching the 80's over southern Florida. By midweek, morning chill reached northern Florida where on Thursday Tallahassee and Jacksonville recorded 35 degrees. Afternoon temperatures remained below freezing in the Great Lakes region Thursday. A warming trend occurred over the Great Plains at midweek. Thursday was especially mild with temperatures over the northern Great Plains climbing to the 40's and 50's. Rapid City, South Dakota, registered 67 degrees Monday and Imperial, Nebraska, warmed to 61 degrees Thursday afternoon. Cold weather returned to mid-America Friday and temperatures over the northern Great Plains remained near or below freezing over the weekend. Cool weather spread eastward and southward. By Sunday afternoon maximums in the 40's were common. Lafayette, Louisiana, registered only 47 degrees Sunday afternoon. Temperatures over the Far West remained fairly uniform and averaged slightly cooler than normal. Temperatures averaged 6 degrees to 12 degrees below normal over much of the Great Basin. The temperature from the northern Great Plains to New England averaged from 10 degrees to 20 degrees above normal in spite of a weak cooling trend.



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